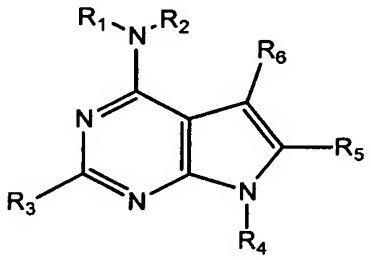
Amendments to the Claims

Please amend claims 5 under the provisions of 37 C.F.R. §1.121, as set forth in the Federal Register on June 30, 2003, as follows:

Claims 1-4. (Canceled)

5. (Currently Amended) A method for treating a disease or condition associated with increased levels of adenosine in a subject, which comprises administering to the subject a therapeutically effective amount of an N-6 substituted 7-deazapurine so as to thereby treat the disease or condition associated with increased levels of adenosine in the subject, wherein said N-6 substituted 7-deazapurine has the formula I:



(I)

wherein,

R_1 and R_2 together form a substituted or unsubstituted heterocyclic ring;

R_3 is a substituted or unsubstituted aryl moiety;

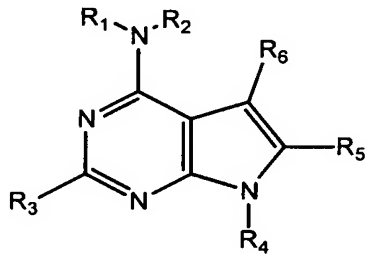
R_4 is a hydrogen atom, an unsubstituted alkyl, or a substituted or unsubstituted aryl moiety; and

R_5 and R_6 are each independently a halogen atom, a hydrogen atom or a substituted or unsubstituted alkyl, aryl, or alkylaryl moiety,

wherein the disease or condition associated with increased levels of adenosine in the subject is mast cell degranulation, ~~neutrophil chemotaxis, Parkinson's disease, sedation,~~ asthma, ~~cerebral ischemia,~~ antidiuresis, allergic rhinitis, bronchitis, bronchoconstriction, ~~chronic obstructive pulmonary disease,~~ or glaucoma.

Claims 6-10. (Canceled)

11. (Previously Presented) An N-6 substituted 7-deazapurine having the formula I:



(I)

wherein,

R_1 and R_2 together form a substituted or unsubstituted heterocyclic ring;

R_3 is a substituted or unsubstituted aryl moiety;

R_4 is a hydrogen atom, an unsubstituted alkyl, or a substituted or unsubstituted aryl moiety; and

R_5 and R_6 are each independently a halogen atom, a hydrogen atom or a substituted or unsubstituted alkyl, aryl, or alkylaryl moiety, or a pharmaceutically acceptable salt thereof.

12. (Previously Presented) A deazapurine of claim 11, wherein:

R_1 and R_2 together form a substituted or unsubstituted heterocyclic ring;

R_3 is unsubstituted or substituted aryl;

R_4 is hydrogen; and

R_5 and R_6 are each independently hydrogen or alkyl,

or a pharmaceutically acceptable salt thereof.

Claims 13-21. (Canceled)

22. (Previously Presented) The deazapurine of claim 12, wherein said heterocyclic ring is substituted with an amine.

23. (Previously Presented) The deazapurine of claim 12, wherein said heterocyclic ring is substituted with acetamido.

Claims 24-186. (Canceled)

187. (Previously Presented) The deazapurine of claim 11, wherein any substituent, if present, is halogen, hydroxyl, alkylcarbonyloxy, arylcarbonyloxy, alkoxycarbonyloxy, aryloxycarbonyloxy, carboxylate, alkylcarbonyl, alkoxycarbonyl, aminocarbonyl, alkylthiocarbonyl, alkoxyl, phosphate, phosphonato, phosphinato, cyano, amino, alkyl amino, dialkylamino, arylamino, diarylamino, alkylarylamino, acylamino, alkylcarbonylamino, arylcarbonylamino, carbamoyl, ureido, amidino, imino, sulfhydryl, alkylthio, arylthio, thiocarboxylate, sulfates, sulfonato, sulfamoyl, sulfonamido, nitro, trifluoromethyl, cyano, azido, heterocyclyl, alkylaryl, or an aromatic or heteroaromatic moiety;

which substituent may be further substituted by any of the above.

188. (Previously Presented) The deazapurine of claim 187, wherein any substituent, if present, is halogen, hydroxyl, alkylcarbonyloxy, alkoxycarbonyloxy, carboxylate, alkylcarbonyl, alkoxycarbonyl, aminocarbonyl, alkylthiocarbonyl, alkoxyl, amino, alkylamino, dialkylamino, acylamino, alkylcarbonylamino, arylcarbonylamino, carbamoyl, ureido, amidino, imino, nitro, heterocyclyl, alkylaryl, or an aromatic or heteroaromatic moiety;

which substituent may be further substituted by any of the above.

189. (Previously Presented) The deazapurine of claim 188, wherein the substituent is halogen, hydroxyl, alkylcarbonyloxy, alkoxycarbonyloxy, carboxylate, alkylcarbonyl, alkoxycarbonyl, aminocarbonyl, alkylthiocarbonyl, alkoxyl, amino, alkylamino, dialkylamino, acylamino, alkylcarbonylamino, arylcarbonylamino, carbamoyl, ureido, amidino, imino, nitro, heterocyclyl or a heteroaromatic moiety;

which substituent may be further substituted by any of the above.